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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-------------------------|-------------------|----------------------|-------------------------|------------------|
| 09/464,520 | 12/15/1999 | MASAHIKO NAKAYAMA | P/1878-135 | 7671 |
| 7590 04/20/2005 | | | EXAMINER | |
| STEVEN I. WEISBURD | | | ORGAD, EDAN | |
| • | SHAPIRO, MORIN & | ART UNIT | PAPER NUMBER | |
| 1177 AVENUI | E OF THE AMERICAS | AKTONII | PAPER NUMBER | |
| 41ST FLOOR | | 2684 | | |
| NEW YORK, NY 10036-2714 | | | DATE MAILED: 04/20/2005 | |

Please find below and/or attached an Office communication concerning this application or proceeding.

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| | | Application No. | Applicant(s) | - | | | |
| Office Action Summary | | 09/464,520 | NAKAYAMA, M | NAKAYAMA, MASAHIKO | | | |
| | | Examiner | Art Unit | | | | |
| | | Edan Orgad | 2684 | _ | | | |
| Period fo | The MAILING DATE of this communication apport Reply | pears on the cover sl | eet with the correspondence | address - | | | |
| THE - Exte after - If the - If NO - Failu Any | ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. a period for reply specified above is less than thirty (30) days, a repl operiod for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b). | 36(a). In no event, however y within the statutory minimu will apply and will expire SIX e, cause the application to be | may a reply be timely filed m of thirty (30) days will be considered tin (6) MONTHS from the mailing date of this come ABANDONED (35 U.S.C. § 133). | | | | |
| Status | • | | | | | | |
| 1)⊠ | Responsive to communication(s) filed on 18 D | ecember 2003. | | | | | |
| , | • | action is non-final. | | | | | |
| 3)□ | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. | | | | | | |
| Disposit | ion of Claims | · | | | | | |
| 5)⊠ 6)⊠ 7)□ | Claim(s) 1-17 is/are pending in the application 4a) Of the above claim(s) is/are withdra Claim(s) 1-6 and 8-17 is/are allowed. Claim(s) 7 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or | wn from consideration | | | | | |
| Applicat | ion Papers | | | | | | |
| 9)[| The specification is objected to by the Examine | er. | | | | | |
| 10)[| The drawing(s) filed on is/are: a) acc | epted or b) object | ed to by the Examiner. | | | | |
| | Applicant may not request that any objection to the | | , , , , , , , , , , , , , , , , , , , , | | | | |
| 11) | Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Extension of the correct to be a second or declaration of the correct to be a second or declaration of the correct to t | | | ` ' | | | |
| Priority (| under 35 U.S.C. § 119 | , | | | | | |
| а) | Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureasee the attached detailed Office action for a list | ts have been receive ts have been receive rity documents have u (PCT Rule 17.2(a) | ed. ed in Application No been received in this Nation). | al Stage | | | |
| Attachmen | • • | | | | | | |
| | ce of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) | 4) ∟_j Inte Paj | erview Summary (PTO-413) per No(s)/Mail Date | | | | |
| 3) 🔯 Infor | mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date <u>12/8/03</u> . | , 5) 🔲 No | tice of Informal Patent Application (Per: | 'TO-152) | | | |

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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claim 7 is rejected under 35 U.S.C. 102(e) as being anticipated by Uesugi (US Patent No. 6,018,552).

Regarding claim 7, Uesugi teaches of a level adjusting circuit (Figure 16) comprising: a plurality of bit shifters that shift input baseband signals to the right by different certain bits (Figure 16 & col. 12, lines 55-59) a plurality of switches for selecting outputs from said respective bit shifters in accordance with a desired gain desired to be set (Figure 12 and col. 12, lines 66-67); and an adder for adding outputs from said respective switches for output as one signal (Figure 16 & col. 12, lines 59-66).

Allowable Subject Matter

Claims 1-6 and 8-17 are allowed.

The following is an examiner's statement of reasons for allowance:

Regarding claims 3, 5, 6, 15 and 16, please see reasons for allowance in office action dated 10/9/03.

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Regarding claims 1, 2, 4, 8-14 and 17, the prior art of record, specifically Kato fails to specifically disclose a D/A converter for converting the baseband signal, which is a digital signal, into an analog signal. Furthermore, since Kato fails to disclose a D/A-converter or any problem associated with not having the D/A converter. Therefore, there the prior art of record not only fails to specifically disclose all the limitations but further fails to provide motivation to fix the non-existent problem of the conventional transmitter by applying a gain set value in any way related to the non-existent D/A converter, still less the gain set value.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments filed 12/18/03 with respect to claim 7 have been fully considered but they are not persuasive.

Regarding applicant's arguments, applicant argues that Uesugi fails to specifically disclose a plurality of switches for selecting outputs from the respective bit shifters in accordance with a desired gain. However, it is examiner's contention that column 12, line 55- column 13, line 15, disclose bit shifter 168, 164 and 163, both for shifting the adders output a single/double etc. bit right to provide the value of Z where a selector 169 selectively supplying one of the values 0, Z, 2Z and 3Z according to the second quadrant information from the quadrant calculator 161; an

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inventing circuit 43 for inventing each bit of the subtracter 13 output according to the second quadrant information. Therefore, a pluarity of switches are inherently utilized in inventing circuit 43 in order to select outputs from the bit shifters with respect to the desired gain.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edan Orgad whose telephone number is 571-272-7884. The examiner can normally be reached on 8:00AM to 5:30PM with every other Friday off..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 571-272-7882. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edan Orgad

April 15, 2005

SUPERVISORY PATENT EXAMINER